Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q1: The sum of a rational number and its reciprocal is 26/5. Find the number.

A: 5 or 1/5

B: 4 or 1/5

C: -5 or 1/5

D: 5 or -1/5

Answer: A

Q2: Find the value of: (8/3)×[-9/2 + 7/6]

A: 8 8/9

B: -(8 7/9)

C: 8 7/9

D: -(8 8/9)

Answer: D

Q3: Find the multiplicative inverse of: 13/8 × 1/5 + 2

A: -40/93

B: 40/93

C: 41/93

D: -41/93

Answer: B

Q4: Simplify the following: (15)5/3× (15)4/3 ÷ (5)3

A: 32

B: 152

C: 33

D: 53

Answer: C

Q5: What number should be subtracted from 4/9 to get -5/11?

A: 89/99

B: -86/99

C: -89/99

D: 86/99

Answer: A

Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q6: The ratio between a two-digit number and the sum of the digit of that number is 7 : 1. If the digit in the ten's place is 4 more than the digit in the unit's place, what is the number?

A: 84

B: 51

C: 95

D: 40

Answer: A

Q7: P and Q are two positive integers such that PQ = 96. Which of the following cannot be the value of P + Q?

A: 97

B: 22

C: 21

D: 20

Answer: C

Q8: A student was asked to divide a number by 8 and add 16 to the quotient. He, however, first added 16 to the number and then divided it by 8, getting 126 as the answer. The correct answer should have been?

A: 142

B: 140

C: 118

D: 136

Answer: B

Q9: When 295 is added to 5A4, the result is 8B9. 8B9 is divisible by 3. What is the largest possible value of A?

A: 8

B: 5

C: 9

D: 6

Answer: A

Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q10: Find the multiplicative inverse of: -7/9 × 5/3

A: 27/35

B: 35/27

C: -35/27

D: -27/35

Answer: D

Q11: Find the area of a rectangular park which is 183/5 m in length and its breadth is one-third of its length.

A: 11163/25 sq. m.

B: 1163/5 sq. m.

C: 11123/25 sq. m.

D: 1113/5 sq. m.

Answer: A

Q12: The value of (-16/21) ÷ (-8/7) is:

A: -2/3

B: 3/2

C: 2/3

D: -3/2

Answer: C

Q13: Simplify: (13/9 × -15/2) + (7/3 × 8/5) + (3/5 × 1/3)

A: 65/9

B: -69/10

C: 81/10

D: -73/9

Answer: B

Q14: Express 1.242424..... in the form p/q, where p and q are integers and q is not equal to zero.

A: 31/25

B: 5/4

C: 41/33

D: 37/30

Answer: C

Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q15: Express 0.6323232.... in the form p/q, where p and q are integers and q is not equal to zero.

A: 63/100

B: 79/125

C: 7/11

D: 313/495

Answer: D

Q16: Simplify and find the value of: (64)(1/3)/(64)(1/6)

A: 4

B: 8

C: 1

D: 2

Answer: D

Q17: Rationalize the denominator of: 7/[(108)1/2 - (96)1/2 + (192)1/2 - (54)1/2]

A: [2(3)1/2 + (6)1/2]/6

B: [(3)1/2 + (6)1/2]/6

C: [2(3)1/2 + 3(6)1/2]/6

D: [3(3)1/2 + (6)1/2]/6

Answer: A

Q18: Evaluate the following: (14/5) + [(28/63) ÷ (23/9) ÷ (13/46)]

A: 242/65

B: 212/65

C: 232/65

D: 222/65

Answer: D

Q19: Find: (12/32) + [(103/24) × (18/412)]

A: 9/16

B: 5/8

C: 7/15

D: 3/4

Answer: A

Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q20: Simplify the following: {(24)7/3 × (24)–4/3} ÷ (2×3)2

A: 4/3

B: 2/3

C: 3/2

D: 3/4

Answer: B

Q21: Neeraj earns Rs. 80000 per month. He spends 1/5 of his income on food; 7/12 of the remainder on house rent and 7/10 of the remainder on the education of children. How much money is still left with him?

A: Rs. 8200

B: Rs. 7800

C: Rs. 9000

D: Rs. 8000

Answer: D

Q22: Which of the rational numbers 11/15, 13/18, 9/12 and 17/23 is the smallest?

A: 11/15

B: 13/18

C: 9/12

D: 17/23

Answer: B

Q23: The value of (276/26) ÷ (–23/39) is:

A: – 18

B: 21

C: 18

D: – 21

Answer: A

Q24: Express 1.565656..... in the form p/q, where p and q are integers and q is not equal to 0.

A: 156/99

B: 154/99

C: 157/99

D: 155/99

Answer: D

Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q25: Simplify the following: [25 + 10(6)1/2][25 – 10(6)1/2]

A: 25

B: 20

C: 35

D: 15

Answer: A

Q26: Find the area of a triangular park having height 352/3 m and its base is two-third of its height.

A: 123908/27 sq. m.

B: 123904/27 sq. m.

C: 123906/27 sq. m.

D: 123905/27 sq. m.

Answer: B

Q27: Which of the following rational numbers lies between 8/9 and 17/12

A: 29/36

B: 3/2

C: 11/9

D: 30/19

Answer: C

Q28: What number should be subtracted from 28/13 to get –5/21?

A: – 653/273

B: – 648/273

C: 648/273

D: 653/273

Answer: D

Q29: Express 0.8141414.... in the form p/q, where p and q are integers and q is not equal to 0.

A: 814/999

B: 403/495

C: 814/990

D: 81/99

Answer: B

Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 5)

Exam ID : TEST/2024/01/05134458 Report Generation Date : 3/26/2024 3:00:26 PM

Q30: The value of (336/74) ÷ (48/37) is:

A: 3/2

B: 5/2

C: 7/2

D: 9/2

Answer: C